

H26

BIOTECHNOLOGY
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RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/005,3180
Source: 1647
Date Processed by STIC: 2/26/2002

RECEIVED
MAR 14 2002

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002

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1647

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

3 <110> APPLICANT: EPICYTE PHARMACEUTICAL, INC.
 4 HIATT, ANDREW C.
 5 HEIN, MICH B.
 6 FITCHEN, JOHN H.
 8 <120> TITLE OF INVENTION: NOVEL EPITHELIAL TISSUE IMAGING AGENT
 10 <130> FILE REFERENCE: 068904-0204
 AC-> 12 <140> CURRENT APPLICATION NUMBER: US/09/005,318D
 Q--> 13 <141> CURRENT FILING DATE: 1998-01-09
 15 <150> PRIOR APPLICATION NUMBER: 09/005,167
 16 <151> PRIOR FILING DATE: 1998-01-09
 18 <150> PRIOR APPLICATION NUMBER: 08/782,480
 19 <151> PRIOR FILING DATE: 1997-01-10
 21 <160> NUMBER OF SEQ ID NOS: 93
 23 <170> SOFTWARE: PatentIn 3.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 137
 E--> 28 <212> TYPE: Protein PRT is the valid response (global error)
 29 <213> ORGANISM: Human
 31 <220> FEATURE:
 W--> 32 <221> NAME/KEY: misc-feature
 33 <222> LOCATION: Synthetic polypeptide J chain all explanations given (2237 line)
 35 <400> SEQUENCE: 1)<2237
 36 Gln Glu Asp Glu Arg Ile Val Leu Val Asn Lys Cys Lys Cys Ala
 37 1 5 10 15
 39 Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu Asp
 40 20 25 30
 42 Ile Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg Glu
 43 35 40 45
 45 Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Arg Pro Val Tyr His
 46 50 55 60
 48 Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp
 49 65 70 75 80
 51 Asn Gln Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser
 52 85 90 95
 55 Ala Thr Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Ala
 56 100 105 110
 58 Val Val Pro Leu Val Tyr Gly Gly Glu Thr Lys Met Val Glu Thr Ala
 59 115 120 125
 61 Leu Thr Pro Asp Ala Cys Tyr Pro Asp

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

62 130 135
 65 <210> SEQ ID NO: 2
 66 <211> LENGTH: 135
 E--> 67 <212> TYPE: Protein PRF
 68 <213> ORGANISM: Mouse
 70 <220> FEATURE:
 W-OK 71 <221> NAME/KEY: misc-feature
 72 <222> LOCATION: Synthetic polypeptide J chain) 7/2237 C
 74 <400> SEQUENCE: 2
 75 Gln Asp Glu Asn Glu Arg Ile Val Val Asn Lys Cys Lys Cys Ala
 76 1 5 10 15
 78 Arg Ile Thr Ser Arg Ile Ile Pro Ser Ala Glu Asp Pro Ser Gln Asp
 79 20 25 30
 81 Ile Val Glu Arg Asn Val Arg Ile Ile Val Pro Leu Asn Ser Arg Glu
 82 35 40 45
 84 Asn Ile Ser Asp Pro Thr Ser Pro Met Arg Thr Lys Pro Val Tyr His
 85 50 55 60
 87 Leu Ser Asp Leu Cys Lys Lys Cys Asp Thr Thr Glu Val Glu Leu Glu
 88 65 70 75 80
 90 Asp Gln Val Val Thr Ala Ser Gln Ser Asn Ile Cys Asp Ser Asp Ala
 91 85 90 95
 93 Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Asn Arg Val
 94 100 105 110
 96 Lys Leu Ser Tyr Arg Gly Gln Thr Lys Met Val Glu Thr Ala Leu Thr
 97 115 120 125
 99 Pro Asp Ser Cys Tyr Pro Asp
 100 130 135
 109 <210> SEQ ID NO: 3
 110 <211> LENGTH: 137
 E--> 111 <212> TYPE: Protein
 112 <213> ORGANISM: Rabbit
 114 <220> FEATURE:
 W-OK 115 <221> NAME/KEY: misc-feature
 116 <222> LOCATION: Synthetic polypeptide J chain) 7/2237 C
 118 <400> SEQUENCE: 3
 119 Asp Asp Glu Ala Thr Ile Leu Ala Asp Asn Lys Cys Met Cys Thr Arg
 120 1 5 10 15
 122 Val Thr Ser Arg Ile Ile Pro Ser Thr Glu Asp Pro Asn Glu Asp Ile
 123 20 25 30
 125 Val Glu Arg Asn Ile Arg Ile Val Val Pro Leu Asn Asn Arg Glu Asn
 126 35 40 45
 128 Ile Ser Asp Pro Thr Ser Pro Leu Arg Arg Asn Pro Val Tyr His Leu
 129 50 55 60
 131 Ser Asp Val Cys Lys Lys Cys Asp Pro Val Glu Val Glu Leu Glu Asp
 132 65 70 75 80
 134 Gln Val Val Thr Ala Thr Gln Ser Asn Ile Cys Asn Glu Asp Asp Gly
 135 85 90 95
 137 Val Pro Glu Thr Cys Tyr Met Tyr Asp Arg Asn Lys Cys Tyr Thr Thr
 138 100 105 110

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

140 Met Val Pro Leu Arg Tyr His Gly Glu Thr Lys Met Val Gln Ala Ala
141 115 120 125
143 Leu Thr Pro Asp Ser Cys Tyr Pro Asp
144 130 135
163 <210> SEQ ID NO: 4
164 <211> LENGTH: 136
E--> 165 <212> TYPE: Protein
166 <213> ORGANISM: Bovine
168 <220> FEATURE:
WOK 169 <221> NAME/KEY: misc-feature
170 <222> LOCATION: Synthetic polypeptide J chain C 2237 C
172 <400> SEQUENCE: 4
173 Glu Asp Glu Ser Thr Val Leu Val Asp Asn Lys Cys Gln Cys Val Arg
174 1 5 10 15
176 Ile Thr Ser Arg Ile Ile Arg Asp Pro Asp Asn Pro Ser Glu Asp Ile
177 20 25 30
179 Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Thr Arg Glu Asn
180 35 40 45
182 Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Glu Pro Lys Tyr Asn Leu
183 50 55 60
185 Ala Asn Leu Cys Lys Lys Cys Asp Pro Thr Glu Ile Glu Leu Asp Asn
186 65 70 75 80
188 Gln Val Phe Thr Ala Ser Gln Ser Asn Ile Cys Pro Asp Asp Tyr
189 85 90 95
191 Ser Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Thr Leu
192 100 105 110
194 Val Pro Ile Thr His Arg Gly Val Thr Arg Met Val Lys Ala Thr Leu
195 115 120 125
197 Thr Pro Asp Ser Cys Tyr Pro Asp
198 130 135
217 <210> SEQ ID NO: 5
218 <211> LENGTH: 119
E--> 219 <212> TYPE: Protein
220 <213> ORGANISM: Bull frog
222 <220> FEATURE:
WOK 223 <221> NAME/KEY: misc-feature
224 <222> LOCATION: Synthetic polypeptide J chain C 2237 C
226 <400> SEQUENCE: 5
227 Glu Gln Glu Tyr Ile Leu Ala Asn Asn Lys Cys Lys Cys Val Lys Ile
228 1 5 10 15
230 Ser Ser Arg Phe Val Pro Ser Thr Glu Arg Pro Gly Glu Glu Ile Leu
231 20 25 30
233 Glu Arg Asn Ile Gln Ile Thr Ile Pro Thr Ser Ser Arg Met Xaa Ile
234 35 40 45
236 Ser Asp Pro Tyr Ser Pro Leu Arg Thr Gln Pro Val Tyr Asn Leu Trp
237 50 55 60
239 Asp Ile Cys Gln Lys Cys Asp Pro Val Gln Leu Glu Ile Gly Gly Ile
240 65 70 75 80
242 Pro Val Leu Ala Ser Gln Pro Xaa Xaa Ser Xaa Pro Asp Asp Glu Cys

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

243 85 90 95
 245 Tyr Thr Thr Glu Val Asn Phe Lys Lys Lys Val Pro Leu Thr Pro Asp
 246 100 105 110
 248 Ser Cys Tyr Glu Tyr Ser Glu
 249 115
 252 <210> SEQ ID NO: 6
 253 <211> LENGTH: 129
 E--> 254 <212> TYPE: Protein
 255 <213> ORGANISM: Earthworm
 257 <220> FEATURE:
 W--> 258 <221> NAME/KEY: misc-feature
 259 <222> LOCATION: Synthetic polypeptide J chain *C2237*
 261 <400> SEQUENCE: 6
 262 Asn Lys Cys Met Cys Thr Arg Val Thr Ala Arg Ile Arg Gly Thr Arg
 263 1 5 10 15
 265 Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Tyr Ile Arg Ile Asn Val
 266 20 25 30
 268 Pro Leu Lys Asn Arg Gly Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg
 269 35 40 45
 272 Asn Gln Pro Val Tyr His Leu Ser Pro Ser Cys Lys Lys Cys Asp Pro
 273 50 55 60
 275 Tyr Glu Asp Gly Val Val Thr Ala Thr Glu Thr Asn Ile Cys Tyr Pro
 276 65 70 75 80
 278 Asp Gln Gly Val Pro Gln Ser Cys Arg Asp Tyr Cys Pro Glu Leu Asp
 279 85 90 95
 281 Arg Asn Lys Cys Tyr Thr Val Leu Val Pro Pro Gly Tyr Thr Gly Glu
 282 100 105 110
 284 Thr Lys Met Val Gln Asn Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp
 285 115 120 125
 536 <210> SEQ ID NO: 16
 537 <211> LENGTH: *61* *198 shown*
 538 <212> TYPE: DNA
 539 <213> ORGANISM: Artificial Sequence
 541 <220> FEATURE:
 W--> 542 <221> NAME/KEY: misc-feature *goes on C2237 line*
 543 <222> LOCATION: Description of Artificial Sequence: Nucleotide sequence of TpS2
 W--> 545 <223> OTHER INFORMATION:
 545 <400> SEQUENCE: 16
 C--> 546 gcgatgcaga cgataaggcc caaacggaga cctgtactgt tgcgcctcgtaaacggcaaa 60
 548 actgcggatt cccggaaagta acacccttc agtgcgctaa taaaggctgc tggtttgatg 120
 550 acacggtacg gggcgttccg tggtgcttct accccaatac aattgacgtt ccgcctgaag 180
 E--> 552 aagagtgcga gccgtaag 198 ←
 555 <210> SEQ ID NO: 17
 556 <211> LENGTH: 138
 E--> 557 <212> TYPE: Protein
 558 <213> ORGANISM: Artificial Sequence
 560 <220> FEATURE:
 W--> 561 <221> NAME/KEY: misc-feature
 562 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of "full length" TM cDNA
C2237 ←

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

W--> 564 <223> OTHER INFORMATION:

564 <400> SEQUENCE: 17
 565 Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys
 566 1 5 10 15
 568 Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu
 569 20 25 30
 571 Asp Ile Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg
 572 35 40 45
 574 Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Arg Phe Val Tyr
 575 50 55 60
 577 His Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu
 578 65 70 75 80
 580 Asp Asn Gln Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp
 581 85 90 95
 583 Ser Ala Thr Glu Thr Cys Ser Thr Tyr Asp Arg Asn Lys Cys Tyr Thr
 584 100 105 110
 586 Ala Val Val Pro Leu Val Tyr Gly Gly Glu Thr Lys Met Val Glu Thr
 587 115 120 125
 589 Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp
 590 130 135

593 <210> SEQ ID NO: 18

594 <211> LENGTH: 71

E--> 595 <212> TYPE: Protein

596 <213> ORGANISM: Artificial Sequence

598 <220> FEATURE:

W--> 599 <221> NAME/KEY: misc-feature

600 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of Core TM cDNA

W--> 602 <223> OTHER INFORMATION: ←

602 <400> SEQUENCE: 18

603 Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser
 604 1 5 10 15
 606 Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile
 607 20 25 30
 609 Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu
 610 35 40 45
 612 Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Asp Glu
 613 50 55 60

615 Asp Ser Ala Thr Glu Thr Cys

616 65 70

619 <210> SEQ ID NO: 19

620 <211> LENGTH: 49

E--> 621 <212> TYPE: Protein

622 <213> ORGANISM: Artificial Sequence

624 <220> FEATURE:

W--> 625 <221> NAME/KEY: misc-feature

626 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of C2 fragment

W--> 628 <223> OTHER INFORMATION: ←

628 <400> SEQUENCE: 19

629 Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu Asp Ile Val Glu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

```

630      1          5          10          15
632      Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg Glu Asn Ile Ser
633          20          25          30
635      Asp Pro Thr Ser Pro Leu Arg Thr Arg Phe Val Tyr His Leu Ser Asp
636          35          40          45
638      Leu
641 <210> SEQ ID NO: 20
642 <211> LENGTH: 12
E--> 643 <212> TYPE: Protein
644 <213> ORGANISM: Artificial Sequence
646 <220> FEATURE:
W--> 647 <221> NAME/KEY: misc-feature
648 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of D 1.1
fragment
W--> 650 <223> OTHER INFORMATION: ↴
650 <400> SEQUENCE: 20
651      Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg
652          1          5          10
655 <210> SEQ ID NO: 21
656 <211> LENGTH: 14
E--> 657 <212> TYPE: Protein
658 <213> ORGANISM: Artificial Sequence
660 <220> FEATURE:
W--> 661 <221> NAME/KEY: misc-feature
662 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of L3D
fragment
W--> 664 <223> OTHER INFORMATION: ↴
664 <400> SEQUENCE: 21
665 Asp Leu Cys Lys Lys Asp Glu Asp Ser Ala Thr Glu Thr Cys
666          1          5          10
669 <210> SEQ ID NO: 22
670 <211> LENGTH: 36
E--> 671 <212> TYPE: Protein
672 <213> ORGANISM: Artificial Sequence
674 <220> FEATURE:
W--> 675 <221> NAME/KEY: misc-feature
676 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of T4
fragment
W--> 678 <223> OTHER INFORMATION: ↴
678 <400> SEQUENCE: 22
679      Ser Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Ala Val Val Pro Leu Val
680          1          5          10          15
682      Tyr Gly Gly Glu Thr Lys Met Val Glu Thr Ala Leu Thr Pro Asp Ala
683          20          25          30
685      Cys Tyr Pro Asp
686          35
692 <210> SEQ ID NO: 23
693 <211> LENGTH: 93
E--> 694 <212> TYPE: Protein
695 <213> ORGANISM: Artificial Sequence
697 <220> FEATURE:
W--> 698 <221> NAME/KEY: misc-feature

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

699 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of Core TM cDNA using L3

W--> 701 <223> OTHER INFORMATION:

701 <400> SEQUENCE: 23

702 Asp Asn Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser
703 1 5 10 15
705 Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile
706 20 25 30
708 Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu
709 35 40 45
711 Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Cys Asp
712 50 55 60
714 Pro Thr Glu Val Glu Leu Asp Asn Gln Ile Val Thr Ala Thr Gln Ser
715 65 70 75 80
717 Asn Ile Cys Asp Glu Asp Ser Ala Thr Glu Thr Cys Tyr
718 85 90

721 <210> SEQ ID NO: 24

722 <211> LENGTH: 35

E--> 723 <212> TYPE: Protein

724 <213> ORGANISM: Artificial Sequence

726 <220> FEATURE:

W--> 727 <221> NAME/KEY: misc-feature

728 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of L3 fragment

W--> 730 <223> OTHER INFORMATION:

730 <400> SEQUENCE: 24

731 Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp Asn Gln
732 1 5 10 15
734 Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser Ala Thr
735 20 25 30
737 Leu Trp Thr
738 35

744 <210> SEQ ID NO: 25

745 <211> LENGTH: 22

E--> 746 <212> TYPE: Protein

747 <213> ORGANISM: Artificial Sequence

749 <220> FEATURE:

W--> 750 <221> NAME/KEY: misc-feature

751 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of D1 fragment

W--> 753 <223> OTHER INFORMATION:

753 <400> SEQUENCE: 25

754 Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys
755 1 5 10 15
757 Ala Arg Ile Thr Ser Arg
758 20

761 <210> SEQ ID NO: 26

762 <211> LENGTH: 66

E--> 763 <212> TYPE: Protein

764 <213> ORGANISM: Artificial Sequence

766 <220> FEATURE:

W--> 767 <221> NAME/KEY: misc-feature

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

768 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of Tps2
W--> 770 <223> OTHER INFORMATION:

770 <400> SEQUENCE: 26

771 Cys Ser Asp Asp Asp Lys Ala Gln Thr Glu Thr Cys Thr Val Ala
772 1 5 10 15
774 Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln
775 20 25 30
777 Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro
778 35 40 45
780 Trp Cys Phe Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu Glu Cys
781 50 55 60

970 <210> SEQ ID NO: 37

971 <211> LENGTH: 13

E--> 972 <212> TYPE: Protein

973 <213> ORGANISM: Artificial Sequence

975 <220> FEATURE:

W--> 976 <221> NAME/KEY: misc-feature

977 <222> LOCATION: Description of Artificial Sequence: Domain 1, 13 amino peptide with substantial (-sheet character

W--> 979 <223> OTHER INFORMATION:

979 <400> SEQUENCE: 37

980 Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys
981 1 5 10

984 <210> SEQ ID NO: 38

985 <211> LENGTH: 7

E--> 986 <212> TYPE: Protein

987 <213> ORGANISM: Tobacco etch virus

989 <220> FEATURE:

W--> 990 <221> NAME/KEY: misc-feature

991 <222> LOCATION: Peptide recognized by the tobacco etch virus protease Nia

993 <400> SEQUENCE: 38

994 Glu Asn Leu Tyr Phe Gln Ser
995 1 5

1003 <210> SEQ ID NO: 39

1004 <211> LENGTH: 11

E--> 1005 <212> TYPE: Protein

1006 <213> ORGANISM: Artificial Sequence

1008 <220> FEATURE:

W--> 1009 <221> NAME/KEY: misc-feature

1010 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide residues from pro-cathepsin E

W--> 1012 <223> OTHER INFORMATION:

1012 <400> SEQUENCE: 39

1013 Lys Ala His Lys Val Asp Met Val Gln Tyr Thr
1014 1 5 10

1017 <210> SEQ ID NO: 40

1018 <211> LENGTH: 4

E--> 1019 <212> TYPE: Protein

1020 <213> ORGANISM: Artificial Sequence

1022 <220> FEATURE:

W--> 1023 <221> NAME/KEY: misc-feature

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

1024 <222> LOCATION: Description of Artificial Sequence: Linker from procathepsin
W--> 1026 <223> OTHER INFORMATION: ↗
1026 <400> SEQUENCE: 40
1027 Val Gln Tyr Thr
1028 1
1162 <210> SEQ ID NO: 49
1163 <211> LENGTH: 6 31 shown
1164 <212> TYPE: DNA
1165 <213> ORGANISM: Artificial Sequence
1167 <220> FEATURE:
W--> 1168 <221> NAME/KEY: misc-feature
1169 <222> LOCATION: Description of Artificial Sequence: Oligonucleotide 1.2
W--> 1171 <223> OTHER INFORMATION: ↗
1171 <400> SEQUENCE: 49
E--> 1172 ctagaagtaa tacgagcaca cttgcacttc t 31
1245 <210> SEQ ID NO: 54
1246 <211> LENGTH: 61 47
1247 <212> TYPE: DNA
1248 <213> ORGANISM: Artificial Sequence
1250 <220> FEATURE:
W--> 1251 <221> NAME/KEY: misc-feature
1252 <222> LOCATION: Description of Artificial Sequence: Oligonucleotide 3
W--> 1254 <223> OTHER INFORMATION: ↗
1254 <400> SEQUENCE: 54
E--> 1255 ctagaatcat ccgtagctca gaggacccaa atgaagatat agtcgaa 47

See p. 10 for more error

9/05, 3180.10

global error

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

<210> 7
<211> 421
<212> DNA
<213> Artificial Sequence

<220>
<221> CDS
<222> (1)...(414)

<220>
<221> misc-feature

<222> Description of Artificial Sequence: Synthetic polypeptide including
target of "full length" TM cDNA

<223> ↵
<400> 7

Per 1.823 of Sequence Rule,

Explanation of Artificial Sequence goes on <223>

line

FYI: Sequence 7 is a
nucleotide sequence

Also, all nucleotides must
be in lower-case letters

Please convert all
nucleotides to
lower-case letters

See next page

<2207> ↘ <2207> never has a response. It is a "header" only.

<2217> <220> CDS

<2227> <221> 1..78

<222> Description of Artificial Sequence: Nucleotide sequence of secretion
signal from pMelBac

move down to <2237> line

<2237> ↙

<400> 42

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:02

Input Set : A:\Epicyte(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:32 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:67 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:71 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:111 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:115 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:165 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:169 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:219 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:223 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:254 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:258 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:298 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:301 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:302 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=7
L:351 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:354 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:355 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=8
L:383 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:386 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:387 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=9
L:400 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:403 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:404 M:112 C: (48) String data converted to lower case,
L:417 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:420 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:421 M:112 C: (48) String data converted to lower case,
L:423 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:11
M:112 Repeated in SeqNo=11
L:435 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:438 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:439 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=12
L:454 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:457 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:458 M:112 C: (48) String data converted to lower case,
L:460 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
M:112 Repeated in SeqNo=13
L:464 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:468 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:472 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:476 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:484 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13

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L:499 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:502 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:503 M:112 C: (48) String data converted to lower case,
L:505 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
M:112 Repeated in SeqNo=14
L:509 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
L:522 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:525 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:526 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=15
L:542 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:545 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:546 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=16
L:552 M:252 E: No. of Seq. differs, <211> LENGTH: Input:61 Found:198 SEQ:16
L:557 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:561 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:564 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:595 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:599 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:602 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:621 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:625 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:628 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:643 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:647 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:650 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:657 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:661 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:664 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:671 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:675 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:678 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:694 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:698 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:701 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:723 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:727 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:730 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:746 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:750 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:753 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:763 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:767 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:770 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:790 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:793 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:794 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=27

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L:817 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:820 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:821 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=28
L:836 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:839 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:840 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=29
L:854 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:857 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:858 M:112 C: (48) String data converted to lower case,
L:867 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:870 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:871 M:112 C: (48) String data converted to lower case,
L:880 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:883 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:884 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=32
L:906 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:909 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:910 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=33
L:927 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:930 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:931 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=34
L:942 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35
L:945 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:946 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=35
L:957 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36
L:960 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:961 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=36
L:972 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:976 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37
L:979 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:986 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:990 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38
L:1005 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1009 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:39
L:1012 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1019 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1023 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:40
L:1026 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1033 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1037 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:41
L:1061 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:1062 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:42

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L:1065 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1066 M:112 C: (48) String data converted to lower case,
L:1068 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
M:112 Repeated in SeqNo=42
L:1072 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
L:1079 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1083 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:1086 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1096 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1100 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:1103 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1110 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1114 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:1127 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:46
L:1130 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1131 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=46
L:1141 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47
L:1144 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1145 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=47
L:1156 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:1159 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1160 M:112 C: (48) String data converted to lower case,
L:1168 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:1171 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1172 M:112 C: (48) String data converted to lower case,
L:1172 M:252 E: No. of Seq. differs, <211> LENGTH: Input:6 Found:31 SEQ:49
L:1182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:50
L:1185 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1186 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=50
L:1200 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1201 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=51
L:1224 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1225 M:112 C: (48) String data converted to lower case,
L:1239 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1254 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1255 M:252 E: No. of Seq. differs, <211> LENGTH: Input:61 Found:47 SEQ:54
L:1267 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1278 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1291 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1304 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1317 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1679 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1703 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1720 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1838 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: